NAME OF WORK : Construction Of Synthetic Tennis Court,Street Vending Zone & Other Developmental Works At Judicial Layout Main And Cross Roads, Chikkabommasandra, Someshwara Nagar,Allalasandra Village & Surrounding Areas In Ward No-04 Of Yelahanka Division Under Amruth Nagarothan Grants. (Package No-06)

Quality Control Reports

Third and Part Bill

(Book No.03)

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-02-01 **Date: 08/11/2022**

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 02-11-22

Customer ID : Drain Bottom Raft-13th Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-13th Main Road	M20	01/11/2022	08/11/2022	149.97 X 151.96 X 149.96	22789	8.748	330.4	14.5	14.9
2	Drain Bottom Raft-13th Main Road	M20	01/11/2022	08/11/2022	151.36 X 149.39 X 150.82	22612	8.395	346.0	15.3	
3	Drain Bottom Raft-13th Main Road	M20	01/11/2022	08/11/2022	151.19 X 150.10 X 150.22	22693	8.963	338.1	14.9	

* The results obtained are satisfactory as per standard requirements

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-02-01 **Date: 29/11/2022**

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 02-11-22

Customer ID : Drain Bottom Raft-13th Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-13th Main Road	M20	01/11/2022	29/11/2022	151.27 X 150.13 X 151.05	22711	8.534	513.3	22.6	23.5
2	Drain Bottom Raft-13th Main Road	M20	01/11/2022	29/11/2022	149.67 X 151.90 X 150.78	22735	8.609	541.1	23.8	
3	Drain Bottom Raft-13th Main Road	M20	01/11/2022	29/11/2022	150.69 X 150.94 X 149.69	22744	8.261	550.4	24.2	

The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-11-10-01** **Date: 12-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-11-10-01** **Date: 12-11-22**
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	10-11-22
Sample Type/ Size	:	20mm down size coarse aggregate
Source of Sample	:	Judicial Layout
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	240	240	4.8	95.2	90-100
3	10 mm	2567	2807	56.1	43.9	25-55
4	4.75 mm	2030	4837	96.7	3.3	0-10
5	Pan	163	5000	100	0	-

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-11-10-01** **Date: 12-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-11-10-01 **Date: 12-11-22**

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 10-11-22

Sample Type : Fine Aggregate (M-Sand)

Source of Sample : Judicial Layout

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-11-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	78	78	7.8	92.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	244	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	215	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	178	780	78.0	22.0	5-20	8-30	12-40	15-50
7	150 micron	141	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-11-10-01** **Date: 12-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.24	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	9.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-11-10-01** **Date: 09-12-22**
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	10-11-22
Sample Type	:	Sagar 53grade
Source of Sample	:	Judicial Layout
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste. Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength. Clause 6
Date of test	:	11-11-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-10-11-01** **Date: 11-11-22**
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	10-11-22
Sample Type	:	A-One Gold
Source of Sample	:	Judicial Layout
Reference to BIS codes	:	IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2019
Date of test:	:	10-11-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	A-One Gold	Fe550	8	0.390	572	683	21.0%	Satisfactory	Satisfactory
2	A-One Gold	Fe550	10	0.615	589	692	20.0%	Satisfactory	Satisfactory
3	A-One Gold	Fe550	12	0.887	601	710	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Spectro Chemical Analysis, Physical, Non Destructive All Type of Metal Testing

b ID	:	CP-2022-10-11-01 **Date: 13-11-22**
oject Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
ency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
stomer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
arce of Sample	:	Judicial Layout
te of Receipt	:	10-11-22
nple Type / Grade	:	A-One Gold
te of test	:	10-11-22

CHEMICAL ANALYSIS

l. No.	Chemical Contents	8mm	10mm	12mm	Max. Limits as per IS:1786-2008, Gr. Fe 550
1	Carbon (C) %	0.114	0.127	0.152	0.300 Max
2	Phosphor (P) %	0.031	0.034	0.04	0.050 Max
3	Sulphur (S) %	0.037	0.039	0.044	0.055Max
4	Sulphur & Phosphorus %	0.074	0.076	0.081	0.100 Max

: The above material confirms to ASI S S 304 with respect to elements analysed

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-22-01 **Date: 19/12/2022**

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 22-11-22

Customer ID : Drain Bottom Raft-13th Main Road,Judicial Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-13th Main Road,Judicial Layout	M20	21/11/2022	19/12/2022	150.18 X 149.59 X 149.06	22465	8.740	496.5	22.1	22.8
2	Drain Bottom Raft-13th Main Road,Judicial Layout	M20	21/11/2022	19/12/2022	149.40 X 151.87 X 150.50	22690	8.282	533.2	23.5	
3	Drain Bottom Raft-13th Main Road,Judicial Layout	M20	21/11/2022	19/12/2022	151.28 X 151.73 X 151.36	22954	9.088	525.6	22.9	

The results obtained are satisfactory as per standard requirements

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2022-11-23-01 **Date: 20/12/2022**

ject Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

ncy : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

tomer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

e of Receipt : 23-11-22

tomer ID : Drain Bottom Raft-13th Main Road,Judicial Layout

ıple Type /Size : 150X150X150 mm

ıple grade/Age : M20 / 28 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

e of test : 20/12/2022

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Bottom Raft-13th Main Road,Judicial Layout	M20	22/11/2022	20/12/2022	149.91 X 151.27 X 150.48	22677	8.292	548.8	24.2	23.4
	Drain Bottom Raft-13th Main Road,Judicial Layout	M20	22/11/2022	20/12/2022	149.56 X 151.31 X 151.88	22629	8.256	529.5	23.4	
	Drain Bottom Raft-13th Main Road,Judicial Layout	M20	22/11/2022	20/12/2022	151.17 X 150.47 X 151.59	22746	8.705	511.8	22.5	

e results obtained are satisfactory as per standard requirements

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-27-01** **Date: 03/12/2022**

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 27-11-22

Customer ID : Drain Side Wall-13th Main Road,Judicial Layout

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-13th Main Road,Judicial Layout	M20	26/11/2022	03/12/2022	150.26 X 149.31 X 149.68	22435	8.419	392.6	17.5	17.2
2	Drain Side Wall-13th Main Road,Judicial Layout	M20	26/11/2022	03/12/2022	149.73 X 149.49 X 150.50	22384	8.786	376.1	16.8	
3	Drain Side Wall-13th Main Road,Judicial Layout	M20	26/11/2022	03/12/2022	150.00 X 151.13 X 151.17	22669	8.305	389.9	17.2	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-27-01 **Date: 03/12/2022**

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 27-11-22

Customer ID : Drain Bottom Raft-Chikkabommasandra

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 03/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Chikkabommasandra	M20	26/11/2022	03/12/2022	150.31 X 150.77 X 150.09	22663	8.432	396.6	17.5	17.4
2	Drain Bottom Raft-Chikkabommasandra	M20	26/11/2022	03/12/2022	149.43 X 150.92 X 150.76	22552	8.106	401.4	17.8	
3	Drain Bottom Raft-Chikkabommasandra	M20	26/11/2022	03/12/2022	151.87 X 149.52 X 151.19	22707	8.788	381.5	16.8	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-11-30-01 **Date: 05/12/2022**

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 30-11-22

Customer ID : Cement Concrete Pavement-1st, 2nd & 3rd Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 05/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement-1st, 2nd & 3rd Cross Road	M30	28/11/2022	05/12/2022	153.46 X 153.31 X 153.11	23526	8.604	935.9	39.8	37.1
2	Cement Concrete Pavement-1st, 2nd & 3rd Cross Road	M30	28/11/2022	05/12/2022	153.40 X 153.83 X 152.64	23599	8.493	729	30.9	
3	Cement Concrete Pavement-1st, 2nd & 3rd Cross Road	M30	28/11/2022	05/12/2022	151.25 X 152.47 X 152.44	23062	8.512	936.4	40.6	

The results obtained are satisfactory as per standard requirements

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-12-01-2022** **Date: 03-12-22**
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	01-12-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Source of Sample	:	13th Main 1st Cross
Date of test	:	01-12-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	298.5	298.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	78.5	74.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	219.4	223.9
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.5
5	Aggregate impact value	(B/A)*100	26.3	24.8
6	Aggregate impact value (Mean of two tests)	Pecentage	25.6	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-12-02-01** **Date: 06-12-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.22	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-12-02-01

Date: 05-12-22

Project Name : Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants (Package No-06)

Agency : M/s SMLP Asphalts (Prop B.B Umesh), No.1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 02-12-22

Sample Type : Fine Aggregate (M-Sand)

Source of Sample : Judicial Layout

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 03-12-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	45	45	4.5	95.5	90-100	90-100	90-100	95-100
3	2.36 mm	69	114	11.4	88.6	60-95	75-100	85-100	95-100
4	1.18 mm	256	370	37.0	63.0	30-70	55-90	75-100	90-100
5	600 micron	185	555	55.5	44.5	15-34	35-59	60-79	80-100
6	300 micron	207	762	76.2	23.8	5-20	8-30	12-40	15-50
7	150 micron	186	948	94.8	5.2	0-10	0-10	0-10	0-15
8	Pan	52	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-12-04-2022**
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	04-12-22
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of test	:	04-12-22

Date: 06-12-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	58	Min 45 mm
2	Softening Point, °C	53	Min. 47°C
3	Ductility, cm	99	Min. 40cm
4	Flash point, °C	290	Min. 220°C
	Fire point, °C	302	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-12-06-2022 Date: 08-12-22

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 06-12-22

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : 9th Main Road Judicial Layout

Date of test : 06-12-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	425	425	3.9	96.1	95-100
22.4	2056	2481	22.6	77.4	60-80
11.2	1956	4437	40.3	59.7	40-60
4.75	2285	6722	61.1	38.9	25-40
2.36	1469	8191	74.5	25.5	15-30
0.6	1720	9911	90.1	9.9	8-22
0.075	756	10667	97.0	3.0	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-06-01 Date: 12/12/2022

Project Name : Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)

Agency : M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 06-12-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	05/12/2022	12/12/2022	151.66 X 150.32 X 149.67	22798	8.196	312.4	13.7	13.0
2	PCC	M15	05/12/2022	12/12/2022	151.28 X 151.17 X 150.26	22869	8.697	291.0	12.7	
3	PCC	M15	05/12/2022	12/12/2022	151.84 X 151.07 X 150.46	22939	8.106	288.0	12.6	

The results obtained are satisfactory as per standard requirements

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-12-07-2022 Date: 09-12-22

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 07-12-22

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : 10th Main Road

Date of test : 07-12-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	430	430	3.9	96.1	95-100
22.4	2245	2675	24.3	75.7	60-80
11.2	1869	4544	41.3	58.7	40-60
4.75	2145	6689	60.8	39.2	25-40
2.36	1369	8058	73.3	26.7	15-30
0.6	820	8878	80.7	19.3	8-22
0.075	1765	10643	96.8	3.2	0-5

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-12-08-2022 **Date: 10-12-22**
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	08-12-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Source of Sample	:	8th Main 1st & 2nd Cross Road
Date of test	:	08-12-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	9.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.4%	
Combined Flakiness and Elongation Index for WMM	20.3%	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-10-01

Date: 17/12/2022

Project Name : Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)

Agency : M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 10-12-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	09/12/2022	16/12/2022	149.98 X 149.49 X 150.82	22421	8.546	432.1	19.3	18.6
2	M20 Concrete	M20	09/12/2022	16/12/2022	150.17 X 150.96 X 151.00	22670	8.294	415.7	18.3	
3	M20 Concrete	M20	09/12/2022	16/12/2022	151.76 X 150.91 X 150.20	22902	8.160	416.4	18.2	

The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-12-01

Date: 17/12/2022

Project Name : Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)

Agency : M/s SMLP Asphalts (Prop B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 12-12-22

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 17/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	M20 Concrete	M20	10/12/2022	17/12/2022	150.10 X 149.48 X 150.45	22436	8.905	397.4	17.7	18.3
	M20 Concrete	M20	10/12/2022	17/12/2022	150.57 X 151.91 X 150.99	22873	8.137	435.6	19.0	
	M20 Concrete	M20	10/12/2022	17/12/2022	151.00 X 151.77 X 149.28	22917	8.456	414.6	18.1	

Results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-12-12-2022 Date: 14-12-22
Project Name	:	Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)
Agency	:	M/s SMLP Asphalts (Pro B.B. Umesh), No 1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23
Date of Receipt	:	12-12-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Source of Sample	:	7th Cross 1st A Main Road
Date of test	:	12-12-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.2%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.7%	
Combined Flakiness and Elongation Index for WMM	21.9%	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-12-12-2022 Date: 15-12-22

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 12-12-22

Type of Mix : BC (Bituminous Concrete)

Date of test : 12-12-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.16	11.23	10KN(min)
2	Marshal flow at 60°C, mm	3.54	3.49	2-4
3	Percent air Voids	4.84	4.85	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.75	14.32	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.46	73.42	65-75
6	Density, g/cc	2.25	2.26	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : CP-RW-12-13-2022 Date: 15-12-22

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 13-12-22

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Source of Sample : 7th Cross Road

Date of test : 13-12-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	299.7	299.7
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	68.5	65.7
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	230.8	233.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.5
5	Aggregate impact value	(B/A)*100	22.9	21.9
6	Aggregate impact value (Mean of two tests)	Pecentage	22.4	

* The results obtained are satisfactory as per standard requirements.

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Lab ID : CP-2022-12-20-01 Date: 21-12-22

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	32	32	6.7	93.3	90-100
19	86	118	24.8	75.2	71-95
13.2	82	200	42.0	58.0	56-80
4.75	84	284	59.7	40.3	38-54
2.36	54	338	71.0	29.0	28-42
0.3	78	416	87.4	12.6	7-21
0.075	28	444	93.3	6.7	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	35	35	7.3	92.7	90-100
19	84	119	24.9	75.1	71-95
13.2	85	204	42.7	57.3	56-80
4.75	81	285	59.6	40.4	38-54
2.36	52	337	70.5	29.5	28-42
0.3	76	413	86.4	13.6	7-21
0.075	25	438	91.6	8.4	2-8

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

ab ID : CP-2022-12-13-01 Date: 22-12-22

roject Name : Construction of Synthetic tennis court, Street vending Zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No.04 of Yelahanka Division under Amruth Nagarothan Grants.(Package No-06)

gency : M/s SMLP Asphalts (Prop B.B Umesh), No.1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

stomer Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

te of Receipt : 21-12-22

pe of Mix : DBM (Dense Bituminous Macadam) - 8th Main road, 2nd Cross Road

te of test : 21-12-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	477	478
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	5	5
5	Increase in weight of Filter Paper	W5=W4-W3	1	1
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X100	4.80	4.60
7	Average percentage	%	4.7	

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Certificate No.: TC-5548

Lab ID : CP-2022-12-22-01

Date: 23-12-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	15	15	3.2	96.8	90-100
9.5	85	100	21.0	79.0	70-88
4.75	95	195	41.0	59.0	53-71
2.36	58	253	53.2	46.8	42-58
1.18	36	289	60.8	39.2	34-48
0.6	8	297	62.5	37.5	26-38
0.3	53	350	73.6	26.4	18-28
0.15	48	398	83.7	16.3	12-20
0.075	45	443	93.2	6.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	3	3	0.6	99.4	90-100
9.5	56	59	12.4	87.6	70-88
4.75	121	180	37.8	62.2	53-71
2.36	73	253	53.2	46.8	42-58
1.18	39	292	61.3	38.7	34-48
0.6	12	304	63.9	36.1	26-38
0.3	48	352	73.9	26.1	18-28
0.15	40	392	82.4	17.6	12-20
0.075	51	443	93.1	6.9	4-10

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Lab ID : CP-2022-12-23-01

Date: 24-12-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	16	16	3.4	96.6	90-100
9.5	59	75	15.8	84.2	70-88
4.75	135	210	44.2	55.8	53-71
2.36	59	269	56.6	43.4	42-58
1.18	25	294	61.9	38.1	34-48
0.6	9	303	63.8	36.2	26-38
0.3	59	362	76.2	23.8	18-28
0.15	33	395	83.2	16.8	12-20
0.075	49	444	93.5	6.5	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	70	76	15.9	84.1	70-88
4.75	102	178	37.4	62.6	53-71
2.36	83	261	54.8	45.2	42-58
1.18	39	300	63.0	37.0	34-48
0.6	12	312	65.5	34.5	26-38
0.3	48	360	75.6	24.4	18-28
0.15	39	399	83.7	16.3	12-20
0.075	39	438	91.9	8.1	4-10

• The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-12-23-2022

Date: 24-12-22

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, IIIG B Sector, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 23-12-22

Type of Mix : BC (Bituminous Concrete) - 13th Main Road

Date of test : 23-12-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	472	471.5
3	Initial weight of Paper	W3	4.5	4.5
4	Final weight of Paper	W4	5	5
5	Increase in weight of Filter Paper	W5=W4-W3	0.5	0.5
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X100	5.70	5.80
7	Average percentage	%	5.8	

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Lab ID : CP-RW-12-23-2022

Date: 24-12-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	22	22	4.7	95.3	90-100
9.5	56	78	16.5	83.5	70-88
4.75	112	190	40.3	59.7	53-71
2.36	78	268	56.8	43.2	42-58
1.18	32	300	63.6	36.4	34-48
0.6	26	326	69.1	30.9	26-38
0.3	53	379	80.3	19.7	18-28
0.15	30	409	86.7	13.3	12-20
0.075	32	441	93.4	6.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	36	36	7.6	92.4	90-100
9.5	86	122	25.9	74.1	70-88
4.75	85	207	43.9	56.1	53-71
2.36	41	248	52.6	47.4	42-58
1.18	22	270	57.3	42.7	34-48
0.6	30	300	63.6	36.4	26-38
0.3	75	375	79.5	20.5	18-28
0.15	16	391	82.9	17.1	12-20
0.075	49	440	93.3	6.7	4-10

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

B.KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-12-24-2022

Date: 27-12-22

Project Name : Construction of Synthetic Tennis Court, Street Vending Zone & Other Developmental Works at Judicial Layout Main and Cross Roads, Chikkabommasandra, Someshwara Nagar, Allalasandra Village and Surrounding Areas in Ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)

Agency : M/s SMLP Asphalts (Pro B.B. Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064

Customer Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 24-12-22

Type of Mix : BC (Bituminous Concrete) - 8th Main Road

Date of test : 24-12-22

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	472.5	473
3	Initial weight of Paper	W3	3.5	3.5
4	Final weight of Paper	W4	5	5
5	Increase in weight of Filter Paper	W5=W4-W3	1.5	1.5
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X100	5.80	5.70
7	Average percentage	%	5.8	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-64

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Certificate No.: TC-5548

Lab ID : CP-RW-12-24-2022

Date: 27-12-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	32	32	6.8	93.2	90-100
9.5	45	77	16.3	83.7	70-88
4.75	123	200	42.3	57.7	53-71
2.36	62	262	55.4	44.6	42-58
1.18	38	300	63.5	36.5	34-48
0.6	22	322	68.1	31.9	26-38
0.3	48	370	78.3	21.7	18-28
0.15	38	408	86.3	13.7	12-20
0.075	28	436	92.3	7.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	36	36	7.6	92.4	90-100
9.5	49	85	18.0	82.0	70-88
4.75	96	181	38.3	61.7	53-71
2.36	69	250	52.9	47.1	42-58
1.18	53	303	64.1	35.9	34-48
0.6	25	328	69.3	30.7	26-38
0.3	49	377	79.7	20.3	18-28
0.15	20	397	83.9	16.1	12-20
0.075	40	437	92.4	7.6	4-10

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig Date BANGALORE

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End of Report

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